

Artificial Neural Network Elucidates the Role of Transport Proteins in
***Rhodopseudomonas palustris* CGA009 During Lignin Breakdown**
Product Catabolism

Running Title: Artificial neural Network on *R. palustris* CGA009 “Omics” Data

Supplementary Figures

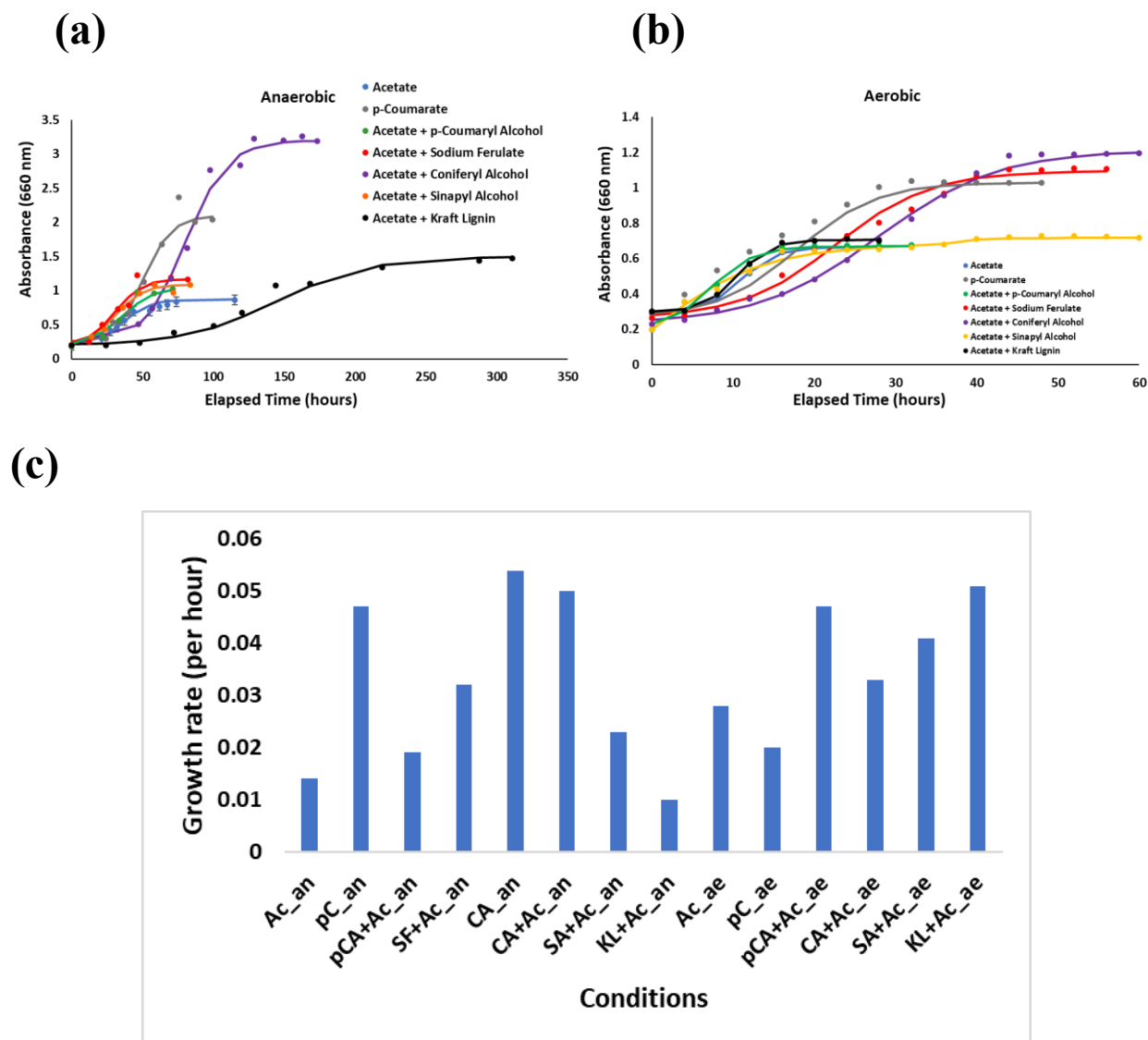


Figure S1. Growth curve of *R. palustris* in different LBPs for (a) aerobic and (b) anaerobic conditions. Here an indicates anaerobic and ae indicates aerobic. Further annotations for different substrates are Ac- acetate, pC- *p*-coumarate, PCA- *p*-coumaryl alcohol, SF- sodium ferulate, CA- coniferyl alcohol, SA- sinapyl alcohol, KL- kraft lignin. (c) Calculated growth rates.

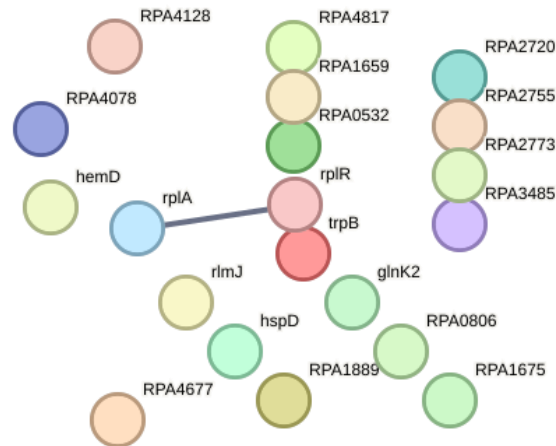


Figure S2. StringDB network of top twenty proteins.

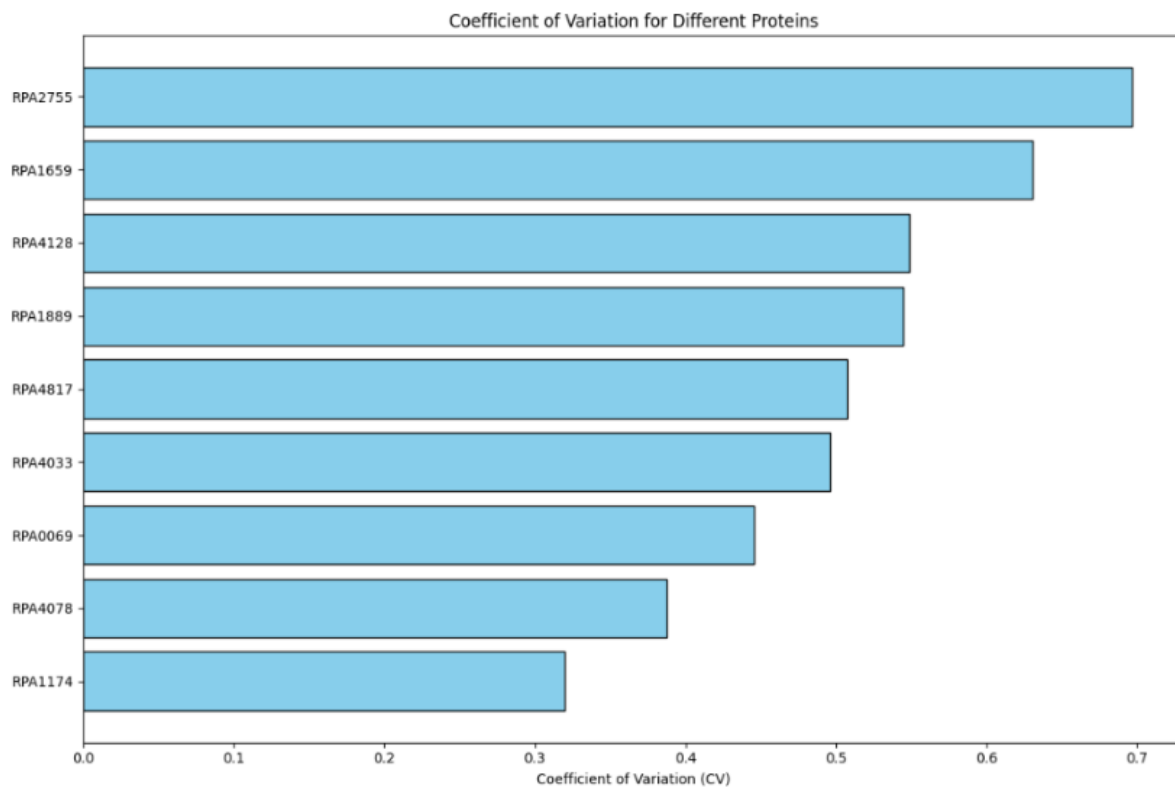


Figure S3. Co-efficient of variation for top nine differentially abundant between aerobic and anaerobic conditions.